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L32: Entry 8 of 33

File: USPT

Sep 2, 2003

US-PAT-NO: 6615253

DOCUMENT-IDENTIFIER: US 6615253 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Efficient server side data retrieval for execution of client side applications

DATE-ISSUED: September 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Accenture LLP	Palo Alto	CA			02

APPL-NO: 09/ 387430 [PALM]

DATE FILED: August 31, 1999

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is related to United States Patent Applications entitled A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A DEVELOPMENT ARCHITECTURE FRAMEWORK U.S. patent application Ser. No. 09/387,747, filed Aug. 31, 1999 and A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR MAINTENANCE AND ADMINISTRATION IN AN E-COMMERCE APPLICATION FRAMEWORK U.S. patent application Ser. No. 09/387,318, both of which are filed concurrently herewith and which are incorporated by reference in their entirety.

INT-CL: [07] G06 F 15/16, G06 F 12/00, G06 F 17/00

US-CL-ISSUED: 709/219; 711/118, 707/100

US-CL-CURRENT: 709/219; 707/100, 711/118

FIELD-OF-SEARCH: 709/217, 709/218, 709/219, 709/203, 709/234, 709/231, 709/232, 707/100, 711/118

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

5047918

September 1991

Schwartz et al.

707/203

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## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0123456	January 2000	EP	100/100
WO92/01251	January 1992	WO	
WO 99/08208	February 1999	WO	
WO 99/44155	September 1999	WO	
PCT/US00/23885	August 2000	WO	
PCT/US00/23999	August 2000	WO	
PCT/US00/24082	August 2000	WO	
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PCT/US00/24084	August 2000	WO	
PCT/US00/24085	August 2000	WO	
PCT/US00/24086	August 2000	WO	
PCT/US00/24125	August 2000	WO	
PCT/US/00/24188	August 2000	WO	
PCT/US00/24189	August 2000	WO	
PCT/US00/24236	August 2000	WO	

## OTHER PUBLICATIONS

Kovalerchuck et al., comparison of relational methods and attribute-based methods for data mining in intelligent systems, proceedings of the 1999 IEEE, International Symposium on Intelligent Systems and Semiotics, Cambridge, MA, pp 162-166. Date Sep. 1999.

Kinexis. Object-orientation and Transaction Processing Where Do They Meet. OOPSLA Keynote, Oct. 6-11, 1991.

Lee et al. Path Dictionary: A New Access Method for Query Processing in Object-oriented Databases. IEEE Transactions on Knowledge and Data Engineering, v10, n3, May/Jun. 1998.

Buddrus et al. Enacting Authorization Models for Object-oriented Databases. Database and Expert Systems applications, Proceedings, Seventh International Workshop, Sep. 9-10, 1996, pp. 116-121.

Bertino et al. Trigger Inheritance and Overriding in an Active Object Database System. IEEE Transactions on Knowledge and Data Engineering, v12, n4. Jul./Aug., 2000.

ANSII Standard for the Programming Language C++, First Edition ISO/IEC 14882: 1998. Date Sep. 1998.

The Annotated C++ Reference Manual ANSI Base Document, M.A. Ellis and B. Stroustrup. Date Jul. 1990.

IBM Dictionary of Computing, pp. 140, 241, 299, 728.

Microsoft Corporation, Microsoft Solutions Framework Overview A Quick Tour of the MSF Models, URL: <http://channels.microsoft.com/enterprise/support/support/consult>, Viewed Oct. 9, 1999.

ART-UNIT: 2153

PRIMARY-EXAMINER: Lim; Krisna

ATTY-AGENT-FIRM: Oppenheimer Wolff & Donnelly LLP

ABSTRACT:

A system, method, and article of manufacture are provided for efficiently retrieving data. A total amount of data required for an application executed by a client is determined. In a single call, the total amount of data from a server is requested over a network. All of the data is bundled into a data structure by the server in response to the single call. The bundled data structure is sent to the client over the network and the data of the data structure is cached on the client. The cached data of the data structure is used as needed during execution of the application on the client.

18 Claims, 195 Drawing figures

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File: USPT

Dec 26, 2000

US-PAT-NO: 6167405

DOCUMENT-IDENTIFIER: US 6167405 A

TITLE: Method and apparatus for automatically populating a data warehouse system

DATE-ISSUED: December 26, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosensteel, Jr.; Kenneth R.	Phoenix	AZ		
Guhr; Jerry T	Phoenix	AZ		
Picone; Joseph K.	Phoenix	AZ		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bull HN Information Systems Inc.	Billerica	MA			02

APPL-NO: 09/ 067101 [\[PALM\]](#)

DATE FILED: April 27, 1998

INT-CL: [07] [G06 F 17/30](#)

US-CL-ISSUED: 707/102

US-CL-CURRENT: [707/102](#)

FIELD-OF-SEARCH: 707/6, 707/101, 707/102, 395/785

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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<input type="checkbox"/>	<a href="#">5918232</a>	June 1999	Pouschine et al.	707/103

## OTHER PUBLICATIONS

"Data Warehousing An Introduction", by Grayce Booth, Groupe Bull Technical Update, Man/Jun. 1995, pp. 1-9, Copyright Jun. 1995.

"The Distributed Data Warehouse Solution", by Kirk Mosher and Ken Rosensteel,

Groupe Bull Technical Update, May/Jun. 1995, pp. 11-18 Copyright Jun. 1995.  
"Bull Warehouse Initiative", by Wayne W. Eckerson, Oct. 1996, Patricia Seybold Group, pp. 1-28, Copyright 1996.

ART-UNIT: 271

PRIMARY-EXAMINER: Amsbury; Wayne

ATTY-AGENT-FIRM: Driscoll; Faith F. Solakian; John S.

ABSTRACT:

A method and system for facilitating the creation of warehouse requests in a data warehouse system. During the design of the data warehouse tables, a repository tool is used for storing a number of new objects such as source and target databases, source and target tables and warehouse requests that are graphically defined and linked together by an administrator with the repository tool. The resulting visual design is so drawn so as to serve as input for each warehouse request to be generated. The administrator invokes a data replication component that operatively couples to the repository tool signaling that the warehouse request is to be implemented. The data replication component automatically creates the different subcomponents of the request by accessing various links stored by the repository tool and displays a visual representation of the subcomponents and their relationships to each other to the administrator. Thereafter, the replication component provides access to menu screens for enabling the administrator to visualize each of the subcomponents of the request and their properties for enabling modifications to be made to such subcomponents for completing configuration of all request subcomponents. Subsequently, the warehouse request can be scheduled to execute and populate the warehouse tables.

35 Claims, 13 Drawing figures

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L32: Entry 33 of 33

File: USPT

Sep 7, 1999

US-PAT-NO: 5950190

DOCUMENT-IDENTIFIER: US 5950190 A

TITLE: Dynamic, self-modifying graphical user interface for relational database applications

DATE-ISSUED: September 7, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yeager; Carolyn Marie	Colorado Springs	CO		
Udy; Jerry Lynn	Colorado Springs	CO		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Aptek, Inc.	Colorado Springs	CO			02

APPL-NO: 08/ 854928   [\[PALM\]](#)

DATE FILED: May 13, 1997

INT-CL: [06] [G06](#) [F](#) [17/30](#)

US-CL-ISSUED: 707/3; 707/511, 707/103

US-CL-CURRENT: [707/3](#); [715/511](#)

FIELD-OF-SEARCH: 707/4

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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<input type="checkbox"/>	<u>5899997</u>	May 1999	Ellacott	707/103

## OTHER PUBLICATIONS

Chapter 12, "Implementing Dynamic SQL Method 4", from Oracle Programmers Guide, Release 2.1; Mar. 1995; Part No. A21020-2.

ART-UNIT: 271

PRIMARY-EXAMINER: Amsbury; Wayne

ATTY-AGENT-FIRM: Ley; John R.

## ABSTRACT:

A dynamic database interface for relational and object-oriented databases includes a dynamic, self-modifying graphical user interface defining a plurality of graphical windows for searching and editing the contents of the relational database, as well as modifying the structure of the database tables. The graphical user interface recognizes modifications to the structure of the database tables and regenerates the graphical windows to accommodate such modifications. The graphical windows also depict schematic representations of physical locations of objects stored within the tables of the relational database. In addition to using the graphical windows to edit the contents and modify the structure of the relational database, batches of data may be imported to both edit the contents of the relational database and modify the structure of the relational database tables.

26 Claims, 21 Drawing figures

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